

**ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM**

Invertebrate Abstract

Element Code: IICOLA7070

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Ptomaphagus cocytus* Beck

COMMON NAME: A Cave Obligate Beetle

SYNONYMS:

FAMILY: Leiodidae

AUTHOR, PLACE OF PUBLICATION: S.B. Peck, Mus. Comp. Zool. Bull. 145: 29-162.
1973.

TYPE LOCALITY: USA, Arizona, Coconino Co., Kaibab Plateau, Roaring Springs Cave 1-I-65, Gregory Lane Leg.

TYPE SPECIMEN: HT: MCZ – 31893, Adult. S. Peck, 1971. Medium = Mounted w/genitalia vial.

TAXONOMIC UNIQUENESS: Recognized under family Leptodiridae in Arnett (1983).
This is the only species of this genus in Arizona.

DESCRIPTION: “Leiodidae is a relatively large family, which is quite variable, but most taxa have a characteristic antennal club (last figure), which is usually 5-segmented with the 2nd segment (antennomere 8) smaller than the segments preceding or following it. An exception is Colon, which has a 4-segmented club.” (Lawrence, accessed 2005). The body shape of beetles in the family is distinctive: oval to nearly spherical, strongly convex, often capable of rolling into a ball. They are black or brown, shiny, and 1.5-6.5 mm in size.

AIDS TO IDENTIFICATION:

ILLUSTRATIONS: Black and white drawing (Borror, 1970).

TOTAL RANGE: Arizona, Coconino County, Kaibab Plateau.

RANGE WITHIN ARIZONA: See “Total Range.”

SPECIES BIOLOGY AND POPULATION TRENDS

BIOLOGY: Some species roll into a ball and play dead when disturbed.

REPRODUCTION: Unknown.

FOOD HABITS: Unknown.

HABITAT: Subterranean obligate. Leiodid beetles such as this usually are found in guano, fungi, wood, under carrion and scats, in caves.

ELEVATION: Unknown.

PLANT COMMUNITY: Unknown.

POPULATION TRENDS: Unknown.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None

STATE STATUS: None

OTHER STATUS: None

MANAGEMENT FACTORS: Unknown.

PROTECTIVE MEASURES TAKEN: Unknown.

SUGGESTED PROJECTS: Studies to determine life history factors, population status and range need to be performed.

LAND MANAGEMENT/OWNERSHIP: Unknown.

SOURCES OF FURTHER INFORMATION

REFERENCES:

[Http://www.conservation.state.mo.us/nathis/caves/cave_life.htm](http://www.conservation.state.mo.us/nathis/caves/cave_life.htm).

Lawrence, J.F. Web abstract: family Leiodidae. Accessed: 8/10/2005 from

<http://www.inbio.ac.cr/papers/coleoptera/LEIODIID.html>.

NatureServe. 2005. An online encyclopedia of life [web application]. Version 4.2. Arlington, Virginia, USA: NatureServe. Available: <http://www.natureserve.org/explorer>. (Accessed: January 27, 2005).

Peck, S.B. 1973. A Systematic revision and the evolutionary biology of the *Ptomaphagus* (Adelops) beetles of North America (Coleoptera; Leiodidae, Catopinae), with emphasis on cave-inhabiting species. Mus. Comp. Zool. Bull. 145: 29-162.

The President and Fellows of Harvard College. 2005. MCZ Type Database @ Harvard Entomology. Accessed 2005 at <http://mcz-28168.oeb.harvard.edu/mcz/>

MAJOR KNOWLEDGEABLE INDIVIDUALS:

ADDITIONAL INFORMATION:

Revised: 2005-05-06 (AMS)
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